# Governor's Drought Interagency Coordinating Committee

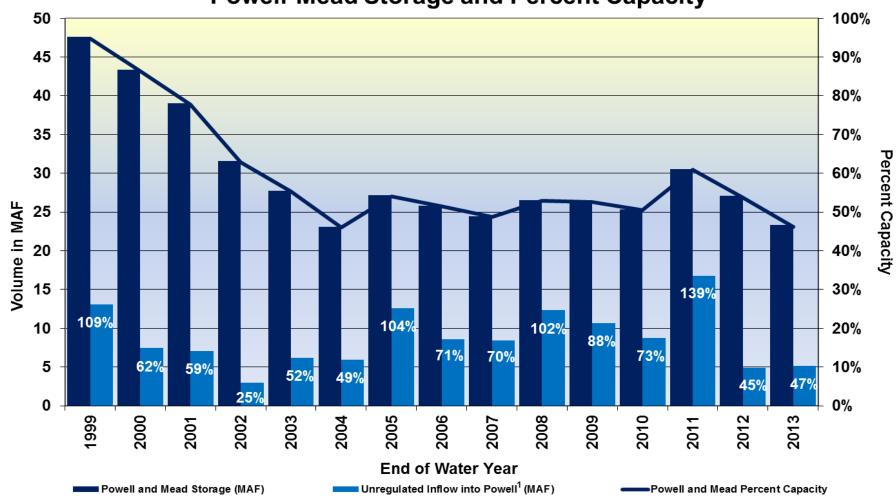
Thomas Buschatzke, Assistant Director, Water Planning Division

Arizona Department Of Water Resources

**November 5, 2013** 

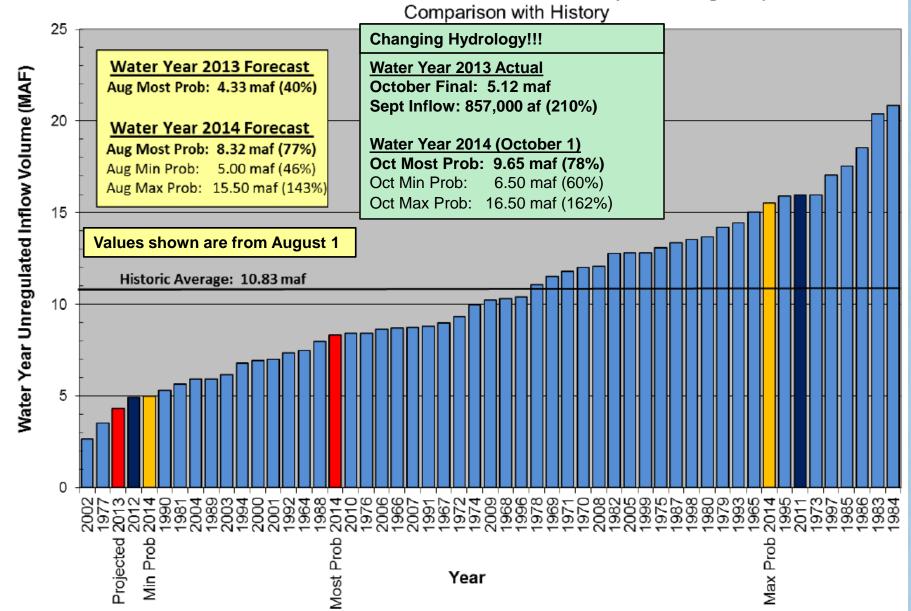






<sup>&</sup>lt;sup>1</sup> Percentages at the top of the light blue bars represent percent of average unregulated inflow into Lake Powell for a given water year. Water years 1999-2011 are based on the 30-year average from 1971 to 2000. Water years 2012-2013 are based on the 30-year average from 1981-2010.

### Lake Powell Unregulated Inflow Water Years 2013 and 2014 Forecast (issued August 1)



### Lake Powell & Lake Mead Operational Table

Operational Tier Determinations for Water Year/Calendar Year 2014

Lake Powell			Lake Mead		
Elevation (feet)	Operation According to the Interim Guidelines	Live Storage (maf) <sup>1</sup>	Elevation (feet)	Operation According to the Interim Guidelines	Live Storage (maf) <sup>1</sup>
3,700	Equalization Tier Equalize, avoid spills or release 8.23 maf	24.3	1,220	Flood Control Surplus or Quantified Surplus Condition Deliver > 7.5 maf	25.9
3,636 - 3,666 (2008-2026)	Upper Elevation Balancing Tier <sup>a</sup> Release 8.23 maf.	15.5 - 19.3 (2008-2026)	1,200 (approx.) <sup>2</sup>	Domestic Surplus or ICS Surplus Condition Deliver > 7.5 maf	22.9 (approx.) <sup>2</sup>
	if Lake Mead < 1,075 feet, balance contents with a min/max release of 7.0 and 9.0 maf		1,145	Normal or 1,103.08 ICS Surplus Condition Deliver ≥ 7.5 maf	15.9 11.9
3.575	3,373.09	9.5	4.075	1/1/14	
	1/1/14 Mid-Elevation Projection1 Release Tier Release 7.48 maf; if Lake Mead < 1,025 feet, release 8.23 maf		1,075	Projection Shortage Condition Deliver 7.167 <sup>d</sup> maf	9.4
3,525	Lower Elevation	5.9	1,025	Shortage Condition Deliver 7.083° maf	5.8
3,490	Balancing Tier Balance contents with a min/max release of 7.0 and 9.5 maf	4.0	1,000	Shortage Condition Deliver 7.0° maf Further measures may be undertaken <sup>7</sup>	4.3
3,370		o	895		0

### Diagram not to scale

Whenever Lake Mead is below elevation 1,025 feet, the Secretary shall consider whether hydrologic conditions together with anticipated deliveries to the Lower Division States and Mexico is likely to cause the elevation at Lake Mead to fall below 1,000 feet. Such consideration, in consultation with the Basin States, may result in the undertaking of further measures, consistent with applicable Federal law.



Acronym for million acre-feet

This elevation is shown as approximate as it is determined each year by considering several factors including Lake Powell and Lake Mead storage, projected Upper Basin and Lower Basin demands, and an assumed inflow.

Subject to April adjustments which may result in a release according to the Equalization Tier

Of which 2.48 maf is apportioned to Arizona, 4.4 maf to California, and 0.287 maf to Nevada

Of which 2.40 maf is apportioned to Arizona, 4.4 maf to California, and 0.283 maf to Nevada

Of which 2.32 maf is apportioned to Arizona, 4.4 maf to California, and 0.280 maf to Nevada

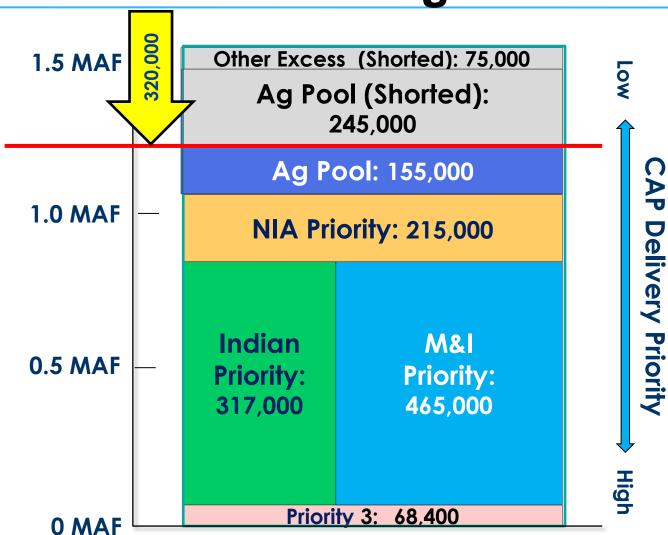
### **Potential For Shortages**

- 33% probability of 7.48 MAF release from Lake Powell in 2015
- 1% probability of Tier 1 shortage in the Lower Basin in 2015 (with 7.48 MAF release in water year 2014 and 2015)
- 43% probability of Tier 1 shortage in the Lower Basin in 2016 (with 7.48 MAF release in water year 2014 and 2015)



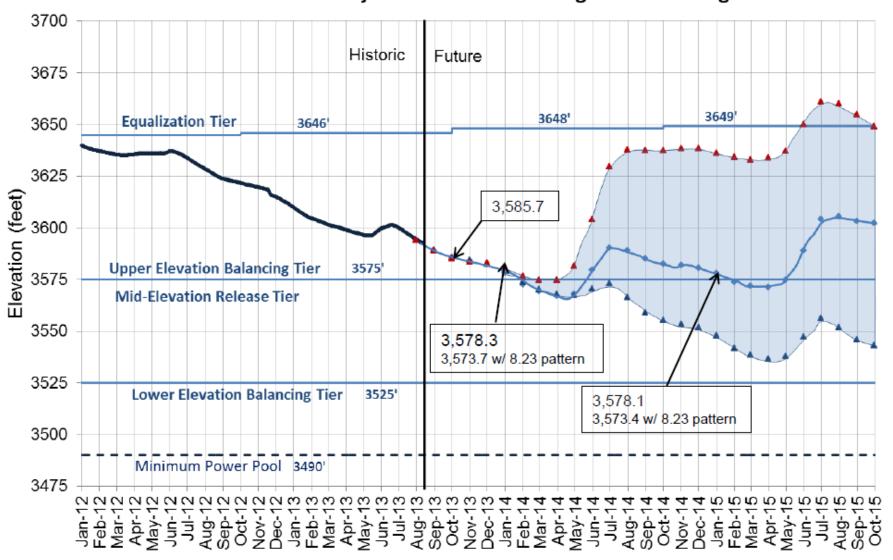
**Based on Reclamation's October 2013 CRSS Model Run** 

### 2016 Level 1 Shortage

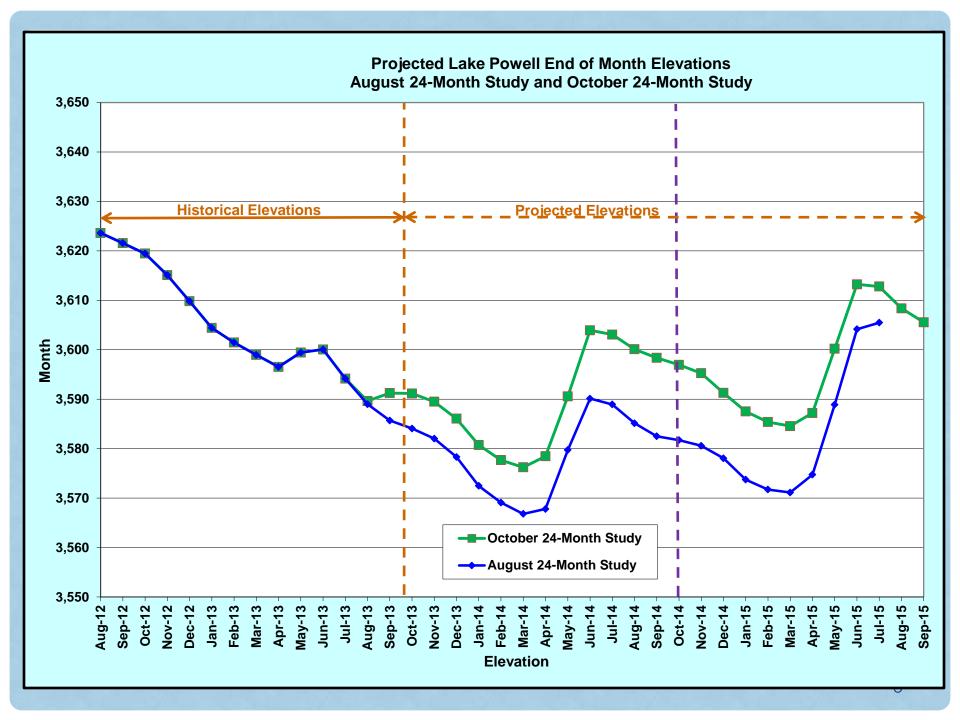


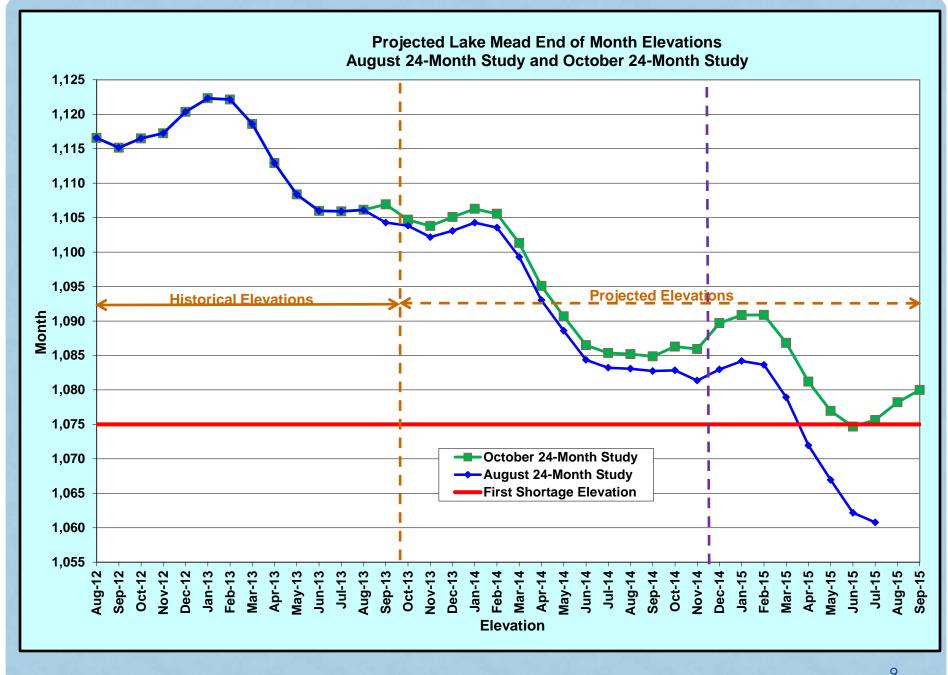


### Lake Powell Elevations Historic and Projected based on August modeling

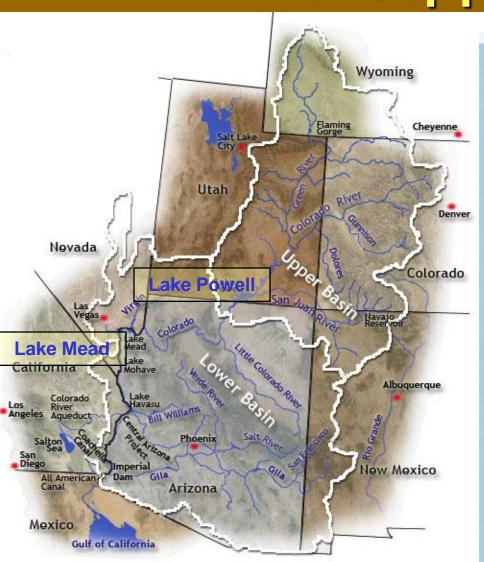


Observed ▲ Aug 2013 Minimum Probable ——Aug 2013 Most Probable ▲ Aug 2013 Maximium Probable





## Colorado River Basin Water Supply Outlook



**Total Reservoir System Contents:** 

29.6 MAF or 50%

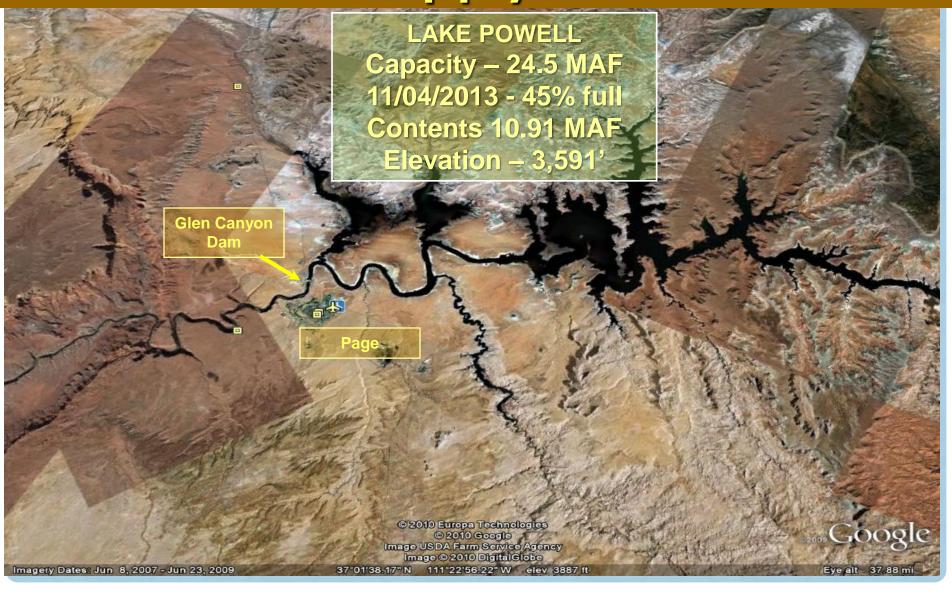
(As of November 4, 2013)

**Total Reservoir System Contents**Last Year:

33.6 MAF or 56%

This is a change of -4.0 MAF

### Colorado River Basin Water Supply Outlook



### Colorado River Basin Water Supply Outlook



# **Questions?**